

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 400VAC, 2NO AND 2NC



	-
Product designation Product type designation	Power contactor BF38
Contact characteristics	B1 00
Number of poles Nr.	4
Rated insulation voltage Ui IEC/EN V	690
Rated impulse withstand voltage Uimp kV	6
Operational frequency	
min Hz	25
max Hz	400
IEC Conventional free air thermal current Ith A	56
Operational current le	
AC-1 (≤40°C) A	56
AC-1 (≤40°C) with 16mm² wire and fork end lugA	60
AC-1 (≤55°C) A	45
AC-1 (≤55°C) with 16mm² wire and fork end lugA	48
AC-1 (≤70°C) A	40
AC-1 (≤70°C) with 16mm² wire and fork end lugA	42
AC-3 (≤440V ≤55°C) A	38
AC-4 (400V) A	15.5
Rated operational power AC-1 (T≤40°C)	
230V kW	21
400V kW	36
500V kW	45
690V kW	62
Short-time allowable current for 10s (IEC/EN60947-1)	320
Protection fuse	
gG (IEC) A	63
aM (IEC) A	40
Making capacity (RMS value)	380
Breaking capacity at voltage	
440V A	304
500V A	240
690V A	192
Resistance per pole (average value) $$ $$ $$ $$ $$ $$ $$ $$ $$ $$	2
Power dissipation per pole (average value)	
Ith W	6
AC-3 W	2.9
Tightening torque for terminals	
min Nm	2.5
max Nm	3
min Ibin	1.8
max Ibin	2.2
Tightening torque for coil terminal	
min Nm	0.8
max Nm	1



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	m	iin	lbin	0.8
	ma		Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	ma	ЭX		6
	Flexible w/o lug conductor section	_	2	
			mm²	2.5
	Flexible c/w lug conductor section	1X	mm²	16
		iin	mm²	1
	ma		mm²	10
	Flexible with insulated spade lug conductor section			
		iin	mm²	1
	ma	эх	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when
				properly wired
Mechanical features				
Operating position	norm	اد		Vertical plan
	allowab			±30°
	allowab			Screw / DIN rail
Fixing				35mm
Weight			g	522
Operations				
Mechanical life		(cycles	20000000
Electrical life		(cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			4.400000
	rated loa mechanical loa		cycles	1400000 20000000
EMC compatibility	mechanical los	10 0	cycles	yes
AC coil operating				yes
Rated AC voltage at 5	i0/60Hz		V	400
AC operating voltage				
, 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	m		%Us	80
	ma .	ЭX	%Us	110
	drop-out	_		
	m		%Us	20
	of 50/60Hz coil powered at 60Hz	ΧŁ	%Us	55
	of 50/60Hz coil powered at 60Hz pick-up			
		iin	%Us	85
	ma		%Us	110
	drop-out		•	
	•	iin	%Us	20
	ma		%Us	55
AC average coil consu	umption at 20°C	_	_	
7 to avorage con conte				
7.0 avorago con conoc	of 50/60Hz coil powered at 50Hz			
, to average con const	in-rus		VA	75
7 to avoiago com conot			VA VA	75 9

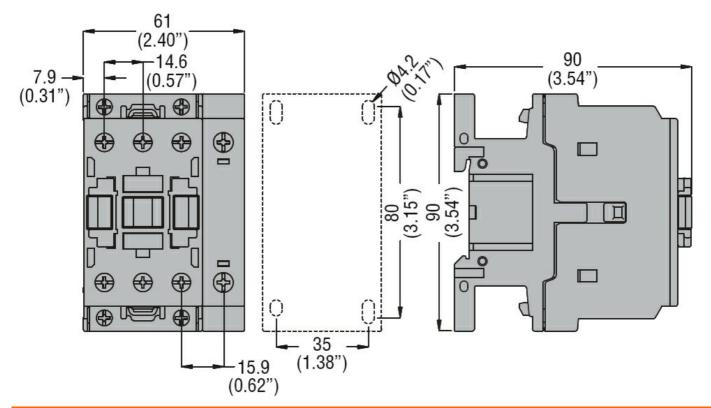


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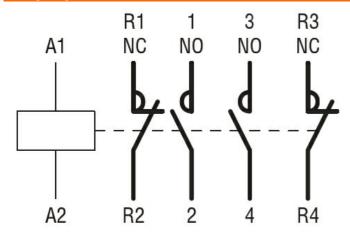
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding:	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
		min	ms	11
		max	ms	29
	Opening NC			
		min	ms	6
		max	ms	14
UL technical data	10 (11)		. , ,	
Rated operational volta			V	600
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical pe				
	for single-phase AC motor	44044004		
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	000/000		4.0
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
Canaral LICE		575/600V	HP	30
General USE	Constant			
	Contactor	ΛΟ	٨	F.F.
Ambient conditions		AC current	Α	55
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature	!	°C	E 0
		min	°C	-50 70
	Storage temperature	max		7.0
	Storage temperature		°C	60
		min	°C	-60
May altitude		max		80
Max altitude			m	3000
Resistance & Protection	The state of the s			2
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching